

GREAT BRITAIN
GROUP 355
CLASS 248
RECORDED

PATENT SPECIFICATION

1 494 835

1 494 835

(21) Application No. 49558-74 (22) Filed 15 Nov. 1974

(23) Complete Specification filed 14 Oct. 1975

(44) Complete Specification published 14 Dec. 1977

(51) INT. CL² B65B 67 12(52) Index at acceptance
B8C M

(72) Inventor JOHN ROBERT BURCHELL



(54) SACK HOLDERS

(71) We, of 1 Redcliffe
pany, do heret
which we pray
to us, and the
performed, to
and by the fol

This inventi
clamping a sack
and it is an ob
to provide an
purpose.

The present i
for clamping a
15 dition which i
members each
clamping meml
where it conta
and is positione
20 it, the arrangen
the mouth of a
wardly and dow
ing members to
ing member an
25 member in a po
sack urges the
the supporting members thereby clamping
the sack mouth between them and main-
taining it in open-mouthed condition, the
30 supporting members being supported by a
support structure located wholly below the
level of the supporting members.

In the accompanying drawings:—

Figure 1 is a general view of one form
35 of holder for clamping a sack in open-
mouthed condition according to the present
invention.

Figure 2 is a cross-section, on a smaller
scale taken on line A-A of Figure 1.

40 Figure 3 shows diagrammatically how
the mouth of a sack in clamped by the
holder, and

Figures 4 and 5 show details of two
possible modifications to the holder of
45 Figure 1.

LILLY ★

Q31

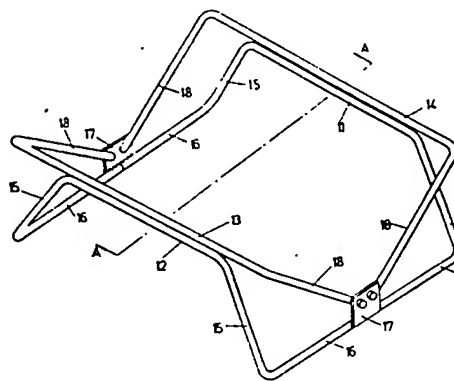
L0245Y/50 ★GB 1494-835

Sack holder for opening sack - has clamps which hold sack mouth
open and load in sack increases clamping action

DRG PACKAGING LTD 15.11.74-GB-049558

(14.12.77) B65b-67 12

The holder for clamping a sack in open-mouthed condition
includes spaced supporting members (11, 12) each assoc-



iated with a separ-
ate clamping mem-
ber (14, 13) which
is movable to a
position above and
contacting the su-
pporting member.
In use, the sack
mouth is folded out-
wardly and down-
wardly around the
clamping members
to extend between
each clamping
member and its
associated support-
ing member in a
position in which load on the sack urges the clamping
members on to the supporting members to clamp the sack
mouth and to maintain it open. A support structure (15, 16)
for the supporting members is located wholly below the
level of the supporting members. 14.10.75. (4501057)

the clamping rail 13 or 14 is aligned directly
above the support rail 12 or 11, as is best
seen in figure 2.

With this structure, a sack 19 (figure 3) 75
may be supported in open-mouthed condi-
tion by passing the mouth of a sack up
between the clamping rails and then folding
a portion of the open-end outwardly and
downwardly between each clamping rail 80
and adjacent support rail. When the posi-
tion shown in figure 3 has been achieved,
the sack is disposed in open-mouthed con-
dition and is clamped to the structure by
the weight of the bag and its contents due 85
to the self-clamping action afforded by the
downward force acting upon clamping rails
13 and 14 serving to clamp the mouth of
the bag between these rails and the support
rails upon which they are resting. 90

into effect
ode by way
how a sack
ed parallel
two spaced 50
13 and 14.
oined integ-
extending
n the ends
er ends of 55
le rails 16.
2 and the
below the
nsisting of
fabricated 60
bent metal
ther.
plates 17
of exten-
the clamp- 65
anner that
be pivoted
iated sup-
ely. The
that when 70
upport rail

Suitable means (not shown) may be provided for supporting the side rails 16, and thus the entire structure, above the ground to provide sufficient clearance for the sack.

5 The clamping rails and or the support rails may have a surface finish or coating or covering serving to enhance the gripping effect of the rails upon the sack.

Various multiple structures for clamping a number of sacks are envisaged within the scope of the present invention. For example, a number of holders may be arranged in side-by-side or end-to-end relationship or a number of holders may be arranged around a central support.

Figure 4 shows a modified arrangement in which the extensions of the clamping rails 13 and 14 are cranked as shown at 18' and the supporting arms of the support rails 11 and 12 are cranked as shown at 15'. It will be appreciated that in the arrangement of Figure 1 the inclination of the supporting arms 15 serves to provide clearance for the folded-over mouth portion of the sack, and the cranked extensions 18' and arm 15' provide similar clearance in the arrangement of Figure 4.

Figure 5 shows a further modification in which the clamping rails 13 and 14 are not mounted for pivoted movement but are mounted for up and down movement upon the fixed supporting arms 15' by means of links 20. In this arrangement clamping rails 13 and 14 and cranked extensions 18' are all joined together, integrally or otherwise, and may be raised and lowered as a single frame.

WHAT WE CLAIM IS:—

1. A holder for clamping a sack in open-mouthed condition which includes spaced supporting members each associated with a separate clamping member movable to a position where it contacts the supporting member and is positioned above and supported by it, the arrangement being such

that in use the mouth of the sack may be folded outwardly and downwardly around the clamping members to extend between each clamping member and its associated supporting member in a position in which load on the sack urges the clamping members on to the supporting members thereby clamping the sack mouth between them and maintaining it in open-mouthed condition, the supporting members being supported by a support structure located wholly below the level of the supporting members.

2. A holder as claimed in Claim 1, wherein each clamping member consists of a rail pivotable about an axis parallel to its length towards and away from the said position where it overlies its associated supporting member.

3. A holder as claimed in Claim 1, wherein each clamping member consists of a rail slidable in a direction at right angles to its length towards and away from the said position where it overlies its associated supporting member.

4. A holder as claimed in Claim 1, 2 or 3, wherein each supporting member consists of a support rail joined at each end to supporting arms forming part of the support structure.

5. A holder as claimed in any one of Claims 1 to 4, wherein the supporting and/or clamping members are provided with a surface finish or coating or covering serving to enhance the gripping effect of the members upon the sack

6. A holder for clamping a sack in open-mouthed condition, substantially as described with reference to any of the accompanying drawings.

MARKS & CLERK,
Chartered Patent Agents,
57-60 Lincoln's Inn Fields,
London, WC2A 3LS.
Agents for the Applicant(s).

248
101

1977

1 494 835

2 SHEETS

COMPLETE SPECIFICATION

This drawing is a reproduction of
the Original on a reduced scale.

SHEET 1

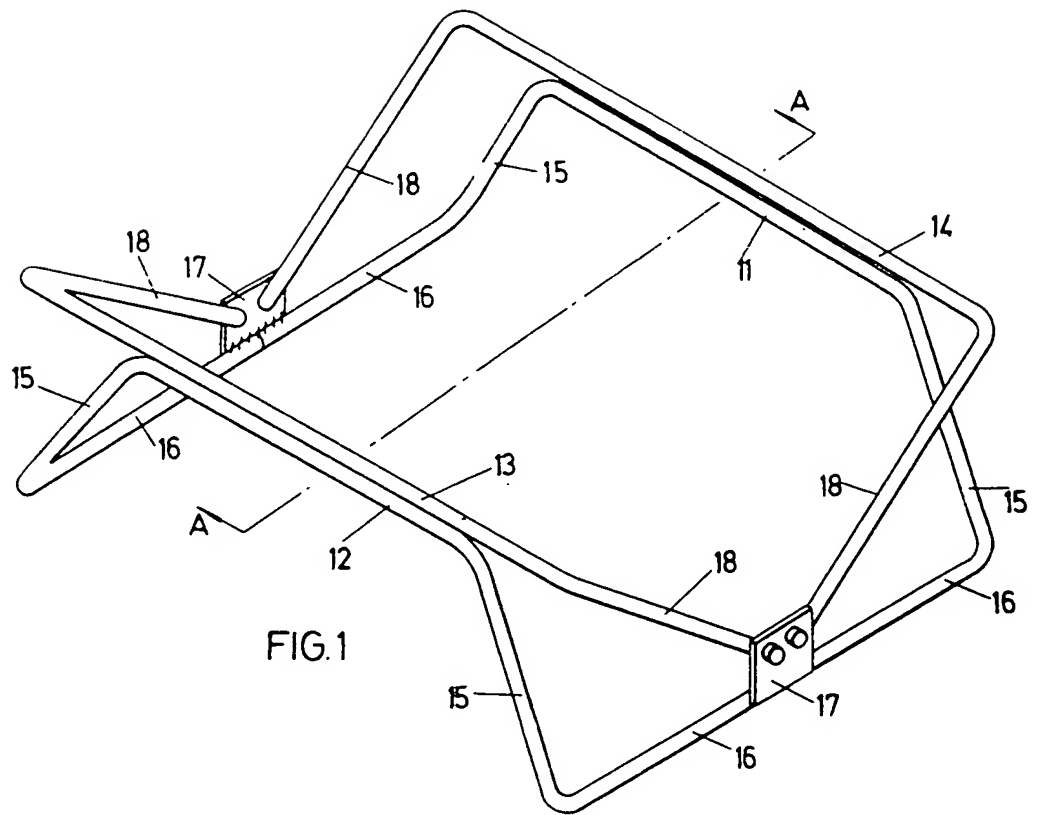


FIG. 1

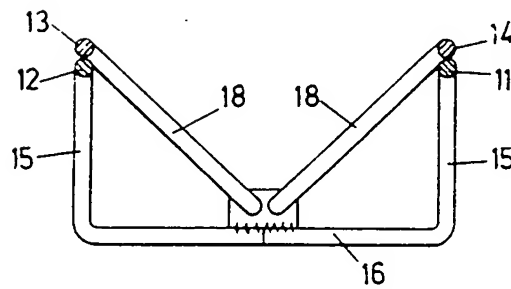


FIG. 2

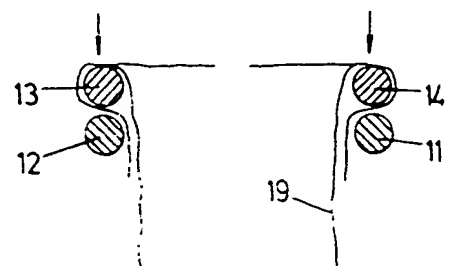
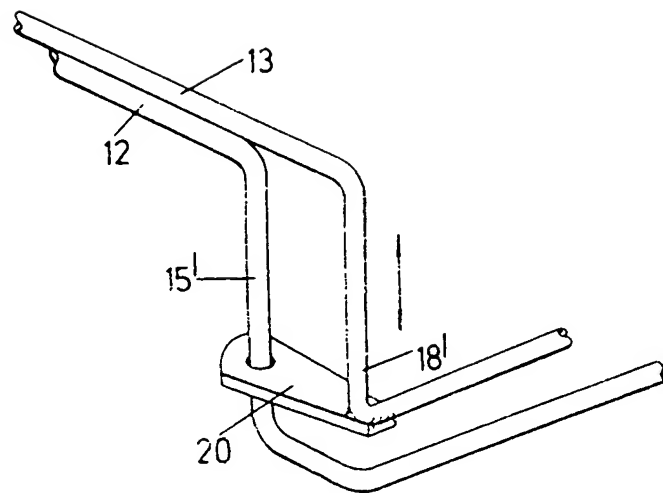
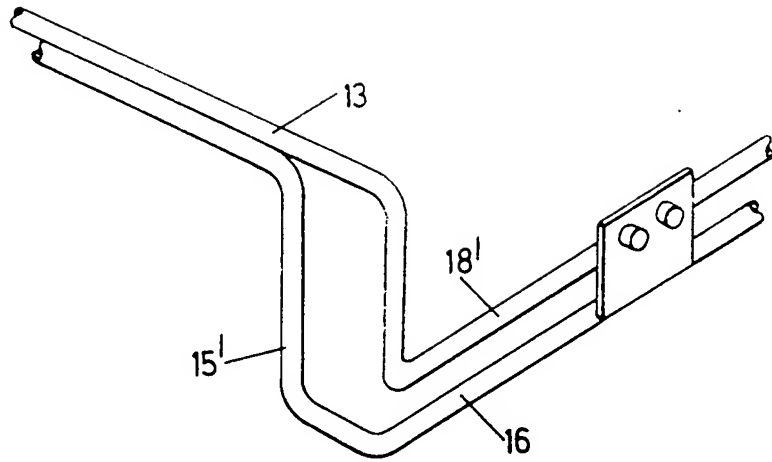


FIG. 3



**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

~~Defective images within this document are accurate representations of the original documents submitted by the applicant.~~

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☒ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.